Maturity studies on first-stubble cane grown on mixed land at the Ardoyne Farm, USDA-ARS, SRRC, Sugarcane Research Unit, Houma, LA, November 20, 2006[1].

Variety	Year	Stalk[2]				Normal juice[3]			Sugar yield	Previous sample date[4]	TRS change from previous sample
		Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)
LCP 85-384	2006	2.0	101	0.81	1.13	18.13	15.64	86.28	293.0	277.6	15.4
	2005	1.7	86	0.77	1.12	18.46	15.74	85.26	293.3	279.4	13.9
	2004	1.8	101	0.73	1.35	17.42	14.89	85.50	277.9	271.8	6.1
	2003	1.7	89	---	---	18.79	16.14	85.88	301.7	268.4	33.3
	2002	2.0	96	---	---	17.51	14.98	85.54	279.5	254.6	24.9
HoCP 85-845	2006	2.4	106	0.87	1.08	17.77	15.22	85.60	284.0	275.5	8.5
	2005	2.0	92	0.80	1.15	17.60	14.78	83.97	273.4	271.5	1.9
	2004	2.2	103	0.80	1.22	16.93	14.31	84.48	265.5	273.1	-7.6
	2003	1.8	85	---	---	18.70	16.05	85.82	300.0	279.6	20.4
	2002	2.2	92	---	---	17.38	14.82	85.29	276.1	266.1	10.0
CP 89-2143	2006	2.3	92	0.94	1.10	17.31	14.96	86.41	274.8	261.5	13.3
	2005	---	---	---	---	---	---	---	---	---	---
	2004	---	---	---	---	---	---	---	---	---	---
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
HoCP 91-555	2006	1.8	95	0.78	1.11	18.75	16.02	85.42	295.8	281.4	14.4
	2005	1.7	90	0.74	1.17	18.95	16.06	84.76	295.5	275.4	20.1
	2004	2.0	106	0.78	1.19	18.02	15.32	85.02	282.2	283.8	-1.6
	2003	1.7	87	---	---	19.74	16.94	85.80	313.4	287.4	26.0
	2002	1.7	90	---	---	18.53	15.90	85.78	294.1	260.5	33.6
Ho 95-988	2006	2.4	100	0.87	1.15	17.93	15.40	85.91	288.0	279.4	8.6
	2005	2.1	89	0.87	1.02	17.82	15.01	84.21	278.0	268.1	9.9
	2004	---	---	---	---	---	---	---	---	---	---
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
HoCP 96-540	2006	2.4	103	0.86	1.18	17.84	15.15	84.89	284.4	270.7	13.7
	2005	2.3	94	0.86	1.16	18.13	15.42	85.05	289.8	265.9	23.9
	2004	2.5	107	0.81	1.46	17.13	14.35	83.75	267.7	260.1	7.6
	2003	2.1	96	---	---	18.84	16.07	85.33	302.5	271.6	30.9
	2002	2.2	98	---	---	17.31	14.55	84.04	264.0	252.8	11.2
L 97-128	2006	2.6	114	0.87	1.09	18.44	15.76	85.46	296.7	284.4	12.3
	2005	1.9	93	0.78	1.11	18.57	15.54	83.66	289.8	277.7	12.1
	2004	2.5	113	0.80	1.30	18.11	15.33	84.67	287.5	287.9	-0.4
	2003	1.9	98	---	---	20.05	17.31	86.31	327.4	305.7	21.7
	2002	---	---	---	---	---	---	---	---	---	---
L 99-226	2006	2.8	110	0.91	1.11	18.70	16.17	86.45	306.1	291.8	14.3
	2005	2.3	100	0.84	1.16	18.66	16.02	85.85	302.3	287.4	14.9
	2004	---	---	---	---	---	---	---	---	---	---
	2003	---	---	---	---	---	---	---	---	---	---
(Con't)	2002	---	---	---	---	---	---	---	---	---	---

Variety	Year	Stalk[2]				Normal juice[3]			Sugar yield	Previous sample date[4]	TRS change from previous sample
		Wt. (lb.)	Lh. (in.)	Dia. (in.)	Density (g/cm3)	Bx. (%)	Su. (%)	Pu. (%)	TRS (lb.)	TRS (lb.)	(lb.)
L 99-233	2006	2.1	114	0.82	1.01	18.17	15.57	85.67	290.7	268.1	22.6
	2005	1.8	101	0.73	1.15	18.00	15.16	84.22	280.8	268.2	12.6
	2004	2.0	114	0.73	1.31	17.15	14.22	82.83	261.5	268.8	-7.3
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
Averages[5]	2006	2.2	101	0.83	1.13	18.12	15.51	85.55	289.3	276.3	13.0
	2005	1.9	93	0.79	1.14	18.12	15.30	84.46	284.2	271.1	13.2
	2004	2.3	106	0.80	1.29	17.37	14.72	84.74	273.9	273.9	0.0
	2003	1.9	90	---	---	19.11	16.44	86.03	308.0	279.7	28.4
	2002	2.0	93	---	---	17.59	15.00	85.21	277.6	253.2	24.4

[1] Data for each parameter represents the average of four replications of 15 stalks each.

[2] Stalk diameter and density based on a subsample consisting of 8 randomly selected stalks from the 15-stalk sample of each rep.

[3] Brix factor = .8854; Sucrose factor = .8105.

[4] Previous sample date was November 6, 2006.

[5] Averages are based only on varieties included in previous year's first-stubble maturity study (LCP 85-384, HoCP 85-845, HoCP 91-555, and HoCP 96-540).

Maturity studies on plant-cane grown on mixed land at the Ardoyne Farm, USDA-ARS, SRRC, Sugarcane Research Unit, Houma, LA, November 20, 2006[1].

Variety	Year	Stalk[2]				Normal juice[3]			Sugar yield	Previous sample date[4]	TRS change from previous sample
		Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)
LCP 85-384	2006	1.9	102	0.79	1.11	17.73	15.15	85.46	282.6	262.3	20.3
	2005	1.8	86	0.80	1.05	18.59	15.84	85.20	295.1	254.7	40.4
	2004	2.0	98	0.76	1.21	17.38	14.68	84.45	272.3	264.2	8.1
	2003	1.9	97	---	---	18.11	15.44	85.29	287.8	246.0	41.8
	2002	2.1	97	---	---	16.47	13.81	83.87	255.4	215.6	39.8
HoCP 85-845	2006	3.0	112	0.98	1.01	17.82	15.18	85.17	282.6	269.8	12.8
	2005	2.1	89	0.89	1.05	18.19	15.40	84.62	285.8	258.2	27.6
	2004	2.5	100	0.82	1.29	17.22	14.47	84.05	267.9	261.2	6.7
	2003	2.1	97	---	---	17.58	14.80	84.20	274.1	246.5	27.6
	2002	2.4	93	---	---	16.67	13.92	83.54	257.0	239.5	17.5
CP 89-2143	2006	3.0	103	0.97	1.10	17.55	15.16	86.38	278.5	262.7	15.8
	2005	2.3	85	0.97	0.94	17.49	14.83	84.83	270.3	239.9	30.4
	2004	---	---	---	---	---	---	---	---	---	---
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
HoCP 91-555	2006	2.2	109	0.81	1.10	19.15	16.50	86.20	305.9	285.5	20.4
	2005	1.8	85	0.82	1.06	19.74	16.78	85.00	309.2	274.9	34.2
	2004	2.0	103	0.77	1.14	18.33	15.59	85.08	287.4	264.8	22.6
	2003	2.0	96	---	---	18.86	16.02	84.94	295.0	254.3	40.7
	2002	2.0	98	---	---	17.95	15.13	84.30	277.8	233.5	44.3
Ho 95-988	2006	2.7	109	0.90	1.14	18.19	15.65	85.99	292.7	270.1	22.6
	2005	2.1	84	0.91	1.02	18.48	15.67	84.76	291.1	248.4	42.8
	2004	2.5	101	0.86	1.15	17.15	14.46	84.28	268.0	232.6	35.4
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
HoCP 96-540	2006	3.0	119	0.94	1.03	17.86	15.25	85.37	287.0	252.2	34.8
	2005	2.2	87	0.90	1.05	18.02	15.09	83.75	281.6	235.8	45.8
	2004	2.3	102	0.81	1.20	17.62	14.79	83.91	276.2	248.4	27.8
	2003	2.3	101	---	---	18.02	14.88	82.57	275.7	248.5	27.2
	2002	2.6	101	---	---	16.16	13.17	81.48	235.5	199.5	36.0
L 97-128	2006	2.8	119	0.90	1.06	18.31	15.52	84.78	288.5	275.4	13.1
	2005	2.3	96	0.87	1.06	18.95	15.82	83.51	294.9	268.3	26.6
	2004	2.4	111	0.78	1.29	18.68	15.91	85.17	299.3	289.0	10.3
	2003	2.2	101	---	---	18.59	15.76	84.78	295.9	255.3	40.6
	2002	2.4	100	---	---	16.84	14.02	83.22	263.4	233.4	30.0
L 99-226	2006	3.4	119	0.98	1.07	19.01	16.47	86.62	312.1	278.7	33.4
	2005	2.6	98	0.92	1.07	19.26	16.41	85.19	308.6	259.1	49.4
	2004	2.8	115	0.89	1.15	17.91	15.10	84.29	282.5	258.5	24.0
	2003	---	---	---	---	---	---	---	---	---	---
Con't	2002	---	---	---	---	---	---	---	---	---	---
L 99-233	2006	2.2	118	0.82	0.95	18.33	15.73	85.79	291.0	272.4	18.6

Maturity studies on plant-cane grown on mixed land at the Ardoyne Farm, USDA-ARS, SRRC, Sugarcane Research Unit, Houma, LA, November 20, 2006[1].

Variety	Year	Stalk[2]				Normal juice[3]			Sugar yield	Previous sample date[4]	TRS change from previous sample
		Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)
	2005	1.7	95	0.79	0.97	18.31	15.48	84.58	287.4	268.2	19.3
	2004	1.9	119	0.73	1.13	18.19	15.50	85.17	288.7	261.6	27.1
	2003	2.1	115	---	---	17.69	14.89	84.18	275.8	240.0	35.8
	2002	---	---	---	---	---	---	---	---	---	---
HoCP00-950	2006	2.1	103	0.86	1.02	19.21	16.63	86.57	318.1	305.8	12.3
	2005	---	---	---	---	---	---	---	---	---	---
	2004	---	---	---	---	---	---	---	---	---	---
	2003	---	---	---	---	---	---	---	---	---	---
	2002	---	---	---	---	---	---	---	---	---	---
Averages[5]	2006	2.6	112	0.88	1.06	18.17	15.52	85.40	289.3	269.0	20.3
	2005	2.1	90	0.87	1.03	18.57	15.71	84.59	291.6	257.4	35.8
	2004	2.3	106	0.80	1.20	17.81	15.06	84.55	280.3	260.0	20.2
	2003	2.1	98	---	---	18.29	15.51	84.80	288.2	250.5	36.7
	2002	2.2	97	---	---	16.98	14.22	83.73	263.4	230.5	32.9

[1] Data for each parameter represents the average of four replications of 15 stalks each.

[2] Stalk diameter and density based on a subsample consisting of 8 randomly selected stalks from the 15-stalk sample of each rep.

[3] Brix factor = .8854; Sucrose factor = .8105.

[4] Previous sample date, October 23, 2006.

[5] Averages are based only on varieties included in previous year's plant-cane maturity study (LCP 85-384, HoCP 85-845, HoCP 91-555, HoCP 96-540, and L 97-128).